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	Application Number	10/628,734	
	Filing Date	07/28/2003	
	First Named Inventor	James E. Hagstrom et al.,	
	Group Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	122	Attorney Docket Number	13.03.6

ENCLOSURES (check all that apply)

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Firm or Individual name	Mirus Corporation
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: James E. Hagstrom,)
Jon A. Wolff, Sean D. Monahan,)
David B. Rozema, Vladimir G. Budker)
Paul M. Slattum, David L. Lewis)
 }
Serial No.: 10/628,734)
 }
Filed: 07/28/2003)
 }
Group Art Unit:)

For: **Intravascular Delivery of Non-Viral Nucleic Acid**

INFORMATIONAL STATEMENT

Commissioner of Patents P.O. BOX
1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. 1.56, applicant hereby calls to the attention of the Patent and Trademark Office the publications listed on the attached PTO 1449.

patent no.	<u>United States Patents</u> inventor	issue date
5,698,531 5,521,291	Nabel et al. Curiel, David T Feigner, Philip L.	12/6/97 05/28/96
5,580,859 5,583,020	Sullivan, Sean Mann, Micheal	12/03/96 12/1/96
5,922,687		07/13/99

International Patents

patent no.	inventor	issue date
PCT/US98/27072		07/01/99

References Cited

Acsadi, G., Jiao, S., Jani, A., Duke, D., Williams, P., Chong, W., Wolff, J.A. Direct gene transfer

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Bohm, W. Et al., "Routes of Plasmid DNA Vaccination That Prime Murine Humoral and Cellular Immune Responses." Vaccine 1998; Vol. 16, No. 9/10; pp. 949-954.

Budker, Vr"Ef al7, "Naked DNA Delivered Intraportally Expresses Efficiently in Hepatocytes." Gene Therapy 1996; 3: pp. 593-598.

Budker, V. Et al., "The Efficient Expression of Intravascularly Delivered DNA in Rat Muscle." Gene Therapy 1998;5; pp. 272-276.

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-Greelish JP et al. "Stable restoration of the sarcoglycan complex in dystrophic muscle perfused with histamine and a recombinant adeno-associated viral vector." Nature; 1999 Vol. 399 no. 6734 pp. 439-443

Kawabata, K. Et al., "The Fate of Plasmid DNA After Intravenous Injection in Mice: Involvement of Scavenger Receptors in Its Hepatic Uptake." *Pharmaceutical Research* 1995; Vol. 12, No. 6; pp. 825- 830. ~^

--Liu F et al. "Hydrodynamics-based transfection in animals by systemic administration of plasmid DNA," Gene Ther; 1999 Vol. 6 pp. 1258-1266

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McLean, John W. Et al., "Organ-Specific Endothelial Cell Uptake of Cationic Liposome-DNA Complexes in Mice." The American Physiological Society 1997; pp. H387-H404. _,"— ""

-Jvlilas M et al. "Isolated limb perfusion in the sarcoma-bearing rat: a novel preclinical gene delivery system," Clin Cancer Res; 1997 Vol. 3 no. 12 Pt. 1, pp. 2197-203

- Song, YK. Et al., "Enhanced Gene Expression in Mouse Lung by Prolonging the Retention Time of Intravenously Injected Plasmid DNA." *Gene Therapy* 1998; 5th pp. 1531-1537.

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^{***}Zhang, Guofeng Et al., "Expression of Naked Plasmid DNA Injected Into the Afferent and Efferent Vessels of Rodent and Dog Livers." Human Gene Therapy October 10, 1997; 8; pp. 1763-1772.

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~ Zhang et al. "Efficient expression of naked dna delivered intraarterially to limb muscles of nonhuman primates," Human Gene Therapy 2001 Vol. 12 no. 4 pp. 427-438

'Zhu, Ning Et al., "Systemic Gene Expression After Intravenous DNA Delivery Into Adult Mice." SCIENCE July 9, 1993; Vol. 261; pp. 209-211.

Applicant respectfully requests that these publications be expressly considered during the prosecution of this application and made of record herein and appear among the 'References Cited' on any patent to issue herefrom.

Respectfully submitted,

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I hereby certify that this correspondence is being sent by United States Postal Service mail to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on: November 6,2003.


Kirk Elena



INFORMATION DISCLOSURE STATEMENT BY APPLICANT FORM PTO-1449	Attorney Docket No.: Mirus.13.03.6	Serial No.: 10/628,734
	Applicant; James E. Hagstrom et al.,	Group:
		Examiner:

U.S. PATENT DOCUMENTS

Exmnr Intl	Seq	Patent Number	Issue Date	Patentee	Class	Sub Class	Filing Date

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		Document Number	Publication Date	Country or Patent Office	Class	Sub Class	Transl. yes	no

OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, etc.)

		Acsadi, G., Jiao, S., Jani, A., Duke, D., Williams, P., Chong, W., Wolff, J.A. Direct gene transfer and expression into rat heart in vivo. <i>The New Biologist</i> 3(1), 71-81, 1991.
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		Budker, V. Et al., "The Efficient Expression of Intravascularly Delivered DNA in Rat Muscle." <i>Gene Therapy</i> 1998;5; pp. 272-276.
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		Kawabata, K. Et al., "The Fate of Plasmid DNA After Intravenous Injection in Mice: Involvement of Scavenger Receptors in Its Hepatic Uptake." <i>Pharmaceutical Research</i> 1995.
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		Liu, Yong Et al., "Cationic Liposome-Mediated Intravenous Gene Delivery." The Journal of Biological Chemistry October 20, 1995; Vol. 270, No. 42; pp. 24864-24870.
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		""Zhang, Guofeng Et al., "Expression of Naked Plasmid DNA Injected Into the Afferent and Efferent Vessels of Rodent and Dog Livers." Human Gene Therapy October 10, 1997; 8: pp. 1763-1772.
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		'Zhu, Ning Et al., "Systemic Gene Expression After Intravenous DNA Delivery Into Adult Mice." SCIENCE July 9, 1993; Vol. 261; pp. 209-211.

Examiner:

Date Considered:



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5,580,859	Felgner, Philip L.	12/03/96
5,583,020	Sullivan, Sean	12/1/96
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PCT/US98/27072		07/01/99



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